

INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP2005/019158

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl. G03H1/04 (2006.01), B23K26/00 (2006.01), B23K26/08 (2006.01), G02F1/01 (2006.01), H01S3/00 (2006.01)

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl. G03H1/04 (2006.01), B23K26/00 (2006.01), B23K26/08 (2006.01), G02F1/01 (2006.01), H01S3/00 (2006.01)

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Published examined utility model applications of Japan 1922-1996
Published unexamined utility model applications of Japan 1971-2006
Registered utility model specifications of Japan 1996-2006
Published registered utility model applications of Japan 1994-2006

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 2003-25085 A (SEIKO EPSON CORPORATION) 2003.01.28, Page 4 Left column Line 40-45 and Right column Line 1-6, Page 5 Left column Line 5-7, and Fig.1 (Family:None)	1-19
A	EP 540759 A1 (SEIKO EPSON CORPORATION) 1993.05.12, Page 5 column 7 Line 28-51, Page 6 column 9 Line 45-51, Page 7 column 12 Line 54-58, and Fig.1 & JP 2002-207202 A	1-19
A	JP 2002-49002 A (Hamamatsu Photonics K.K.) 2002.02.15, Page 3 Left column Line 46 to Right column Line 2 and Right column Line 38-42, Page 4 Right column Line 30-40, and Fig.1 (Family:None)	1-19

Further documents are listed in the continuation of Box C.

See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance
"E" earlier application or patent but published on or after the international filing date
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"O" document referring to an oral disclosure, use, exhibition or other means
"P" document published prior to the international filing date but later than the priority date claimed

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"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

12.01.2006

Date of mailing of the international search report

24.01.2006

Name and mailing address of the ISA/JP

Japan Patent Office

3-4-3, Kasumigaseki, Chiyoda-ku, Tokyo 100-8915, Japan

Authorized officer

RYUICHI KOMATSU

3P 3506

Telephone No. +81-3-3581-1101 Ext. 3364

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 2000-223766 A (SEIKO EPSON CORPORATION) 2000.08.11, Page 5 Left column Line 19-24 and Right column Line 22-29, and Fig.3 (Family:None)	1-19